

. Rock, J. F.

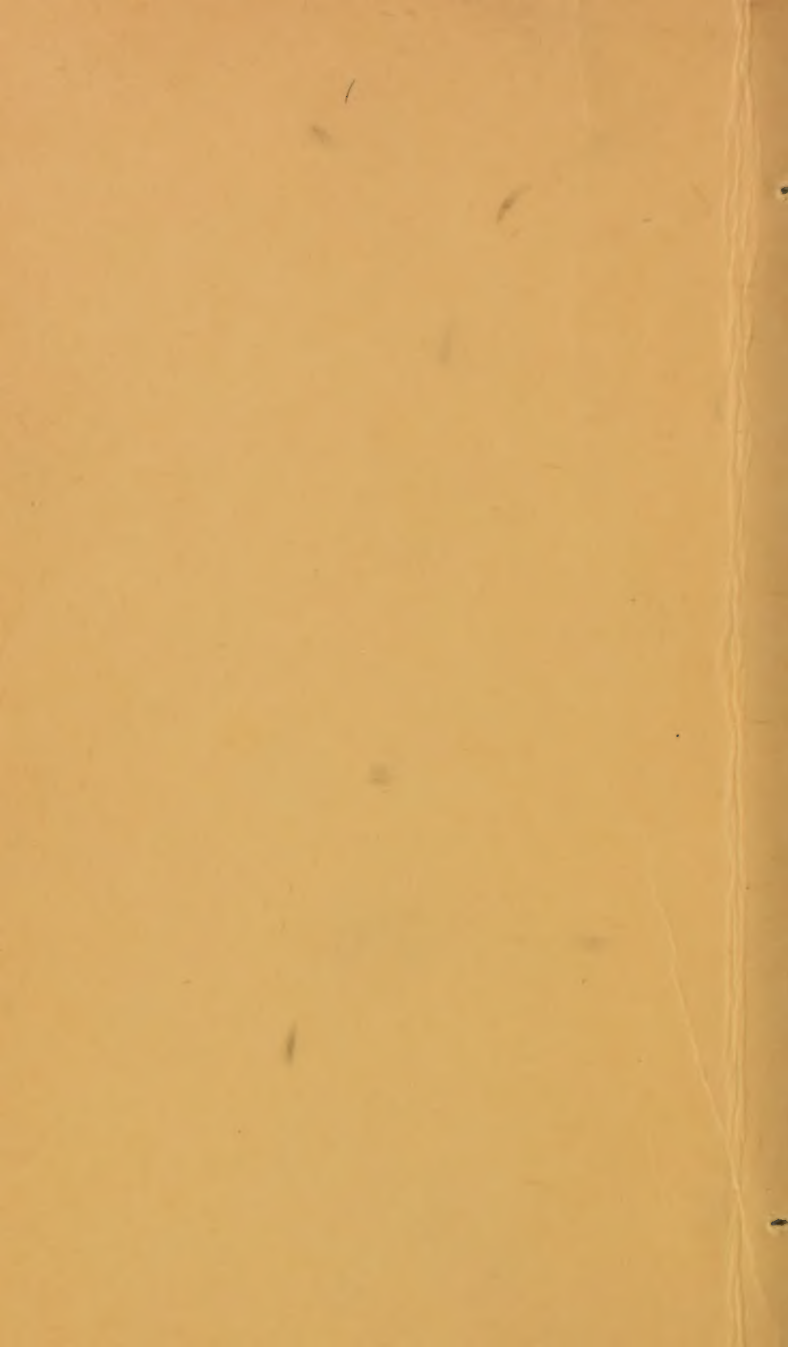
Field notes of some Rhododendrons
collected by Rock in 1925 and 1926.

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FIELD NOTES
OF SOME
RHODODENDRONS

COLLECTED BY

ROCK

IN

1925 and 1926.

[Rock, Joseph Francis]

AROLD
ARBORETUM
HARVARD
UNIVERSITY

FIELD NOTES OF ROCK'S RHODODENDRONS.

13,278. Rhod. Sp. *Przewalskii* Maxim.

Shrub 5-8 feet, leaves oval, pale fawn-coloured beneath, 3-4 inches long, flowers whitish to pink, spotted?. This species occurs in remote valleys of the Kokonor region at an elevation of 10,000-11,000 feet, Rako Gorge, Kokonor. Sept. 28, 1925.

13,279. Rhod. Sp. *anthopogonoides* Maxim.

Shrub 4-5 feet, leaves small, bronze-coloured, very aromatic, flowers small, whitish pink, tubular, occurs with No. 13,278, moist moss-covered slopes of Rako Gorge, Kokonor region. This as well as No. 13,278 likes moist mossy slopes exposed to afternoon sun, only found on eastern slope of Rako valley.

Sept. 28, 1925.

- 13,302. Rhod. Sp. *Przewalskii* Maxim.
Shrub 4-6-8 feet, stiff branches, forming globose mosses, leaves thick leathery, bright green on top paler beneath, glabrous on both sides, flowers said to be white, large, only found on the wet north-eastern slopes of the Tapan shan, a pass in the Manshan range, 12,000-12,500 feet elevation, none on the south-west slopes where snow probably quickly melts. The north-eastern slopes retain the snow and the steep slopes are marshy, the soil loose. With it occurs a small white tubular flowered species with aromatic leaves and No. 13,303, North-west Kansu, China. Oct., 1925.
- 13,303. Rhod. Sp. *thymifolium* Maxim.
Erect shrub with erect branches 2-3 feet tall, leaves very small, flowers blue, occurs in the same locality and in company with No. 13,302, North-west Kansu. Oct., 1925.
- 13,596. Rhod. Sp. *capitatum* Maxim.
Shrub 2-3 feet tall, leaves oval very small, flowers purplish blue, swampy meadows of Mount Kwang Kei, 11,500 feet elevation, Tebbu land. Oct., 1925.

- 13,597. Rhod. Sp. *anthopogonoides* Maxim

Shrub 5 feet, leaves oval, pubescent beneath, very aromatic, flowers white, tubular, Mount Kwang Kei shan, 11,500 feet elevation, west Tebbu land. Oct., 1925.

- 13,598. Rhod. Sp. *thymifolium* Maxim

Shrub 3 feet, leaves minute, flowers bluish purple, in swampy meadows of Kwang Keishan, 12,500 feet elevation, west Tebbu land. Oct., 1925.

- 13,599. Rhod. Sp. *refsum* Batal

Shrub 5-6 feet tall, leaves obovate, deeply brown woolly beneath, flowers white-pink, fruits brown tomentose at the base but deciduous, Mount Kwang Ku, Rhododendron Abies forest, 12,000 feet elevation, Tebbu land. Oct., Nov., 1925.

- 13,600. Rhod. Sp. *capitatum* Maxim.

Shrub 3-4 feet tall, leaves small, elliptical, flowers purple to blue, Alpine meadows of Mount Kwang Kei, 12,500 feet elevation, Tebbu land. Oct., 1925.

- 13,601. Rhod. Sp. *rufum* Batal.

Shrub 6-10 feet, leaves large, obovate oblong, densely floccose-tomentose beneath, flowers pink, Kwang Kei shan, 12,000 feet elevation, in Abies forest, Rhododendron forming the undergrowth. Oct., 1925.

- 13,605. Rhod. Sp. *capitatum* Maxim.

Shrub 3-4 feet, leaves small, oval, black, flowers bluish, Kwang Kei shan along stream, 11,500 feet elevation, Tebbu land. Oct., 1925.

- 13,610. Rhod. Sp. *anthopogonoides* Maxim.

Shrub 4-5 feet, leaves very aromatic, flowers tubular, white, Lienhoa shan, Central Kansu, 10,000 feet elevation. Oct., 1925.

- 13,611. Rhod. Sp. *capitatum* Maxim.

Shrub 1 foot or less, leaves tiny, oval rounded, flowers purplish blue, Lienhoa shan, 11,500 feet elevation, among rocks, Central Kansu.

Oct., 1925.

- 13,612. Rhod. Sp. *Przewalskii* Maxim.

Shrub 3-4 feet, leaves oval, acute scaly, tomentose beneath, flowers ?, Lienhoa shan, 11,000 feet among limestone rocks, Central Kansu.

Oct., 1925.

- 13,613. Rhod. Sp. *rufum* Batal.

Shrub or small tree 10-15 feet, leaves oval, acute, young leaves pale whitish woolly beneath, old ones with thick rufous tomentose, flowers large, colour probably pink, Lienhoa shan, 11,500 feet elevation, Central Kansu, in Abies forest. Oct., Nov., 1925.

- 13,622. Rhod. Sp. *capitatum* Maxim.

Shrub 3 feet, leaves elliptical, pale green beneath, flowers medium sized, violet to bluish purple, mountain west of Adjican 10,500-11,000 feet, with *Cæragana* and *Junipers*, east Tebbu land.

Oct., 1925.

- 13,628. Rhod. Sp. *rufum* Batal.

Shrub or small tree 6-10 feet, leaves large, obovate oblong, deep cinnamon tomentose beneath, flowers large deep pink spotted purple, with *Picea*, 11,500 feet elevation, Tebbu land.

Oct., 1925.

- 13,629. Rhod. Sp. *Przewalskii* Maxim.
 Shrub 4-5 feet, forming dense masses, limit of shrub vegetation, leaves glabrous green on both sides, flowers in compact umbels, white, Mount Kwang Kei, 12,000-12,500 feet elevation, Tebbu land.
 Sept., Oct., 1925.

- 13,630. Rhod. Sp. *rufum* Batal.
 Tree 15-20 feet, leaves large, obovate oblong, deep rufous tomentose beneath, flowers large pinkish purple, spotted, Mount Kwang Kei in Abies forest, 11,500 feet elevation, Tebbu land.
 Oct., 1925.

- 13,634. Rhod. Sp. *Capitatum* Maxim.
 Shrub 3 feet, leaves elliptical, oblong, flowers bluish purple, Maerhku, in Abies forest, 11,000 feet, East Tebbu land.
 Oct., 1925.

- 13,635. Rhod. Sp. *Capitatum* Maxim.
 Shrub 2-3 feet, leaves small, dark brown beneath, flowers bluish purple, Abies and Picea forests also covering steep mountain slopes like heather, Djrakana, Tebbu land, 11,000 feet elevation.
 Oct., 1925.

- 13,636. Rhod. Sp. *anthopogonoides* Maxon

Shrub 5 feet, leaves very aromatic, flowers white, tubular, Maerhku, in Picea forest, 10,000 feet elevation.

Oct., 1925.

- 13,640. Rhod. Sp. *rufum* Batal

Shrub 4-5 feet, leaves oval with deciduous tomentum, flowers purplish pink, large, Maerhku in Abies and Picea forests, 10,500 feet elevation, east Tebbu land.

Oct., 1925.

- 13,643. Rhod. Sp. *rufum* Batal.

Shrub 4-5 feet, leaves small, oval, $2\frac{1}{2}$ inches 1 inch broad, rufous tomentose beneath, flowers white purplish lilac tinge, Abies and Picea forests, Maerhku 10,500 feet elevation, East Tebbu land. Oct., 1925.

- 13,645. Rhod. Sp. *rufum* Batal.

Shrub 4-8 feet, leaves oval, flowers pink, Kadjaku valley, steep rocky slopes, 10,500 feet, west Tebbu land.

Oct., 1925.

13,647. Rhod. *Sp. rufum* Batal

Shrub 4-5-6 feet, leaves oblong, tomentose beneath, flowers pinkish white spotted purple, mountains of Adjuan west, 10,500-11,000 feet, east Tebbu land, among Abies and Picea.

Oct., 1925.

13,649. Rhod. *Sp. rufum* Batal

Shrub 5 feet, leaves oblong, acute, rufous tomentose beneath, flowers ?, Maerhku, Picea forest 10,500-11,000 feet elevation, Minshan North (Tebbu) slopes.

Oct., 1925.

13,650. Rhod. *Sp. rufum* Batal

Shrub 6-8 feet, leaves oblong, flowers pink, Maerhku, Picea forest, among these large-leaved Rhododendrons are many natural hybrids apparently they are extremely variable, North Minshan, 10,500 feet.

Oct., 1925.

13,674. Rhod. *Sp. capitatum* Maxim.

Shrub 2-3 feet, leaves very small, flowers bluish purple, attractive. Kadjaku valley 10,000-10,500 feet elevation, west Tebbu land in meadows and under willows along stream.

Oct., 1925.

- 13,675. Rhod. Sp. *Przewalskii* Maxim.
Shrub 4-5 feet, leaves oval, tomentum, deciduous, flowers large pink, Maerhku valley, Abies and Picea forests 10,500-11,000 feet elevation, North Minshan. Oct., 1925.

- 13,676. Rhod. Sp. *capitatum* Maxim.
Shrub 3-4 feet, leaves oval acute, silvery, glossy beneath, flowers white, Maerhku, 11,000 feet, Picea-Abies forests, North Minshan. Oct., 1925.

- 13,677. Rhod. Sp. *Przewalskii* Maxim.
Shrub 4 feet, leaves large oblong, perfectly glabrous, dark green above, pale green beneath, dull, flowers white, west of Adjua, 10,500-11,000 feet, east Tebbu land, grassy and rocky steep slopes. Sept., Oct., 1925.

- 13,678. Rhod. Sp. *rufum* Batal.
Shrub 5-8 feet, leaves large, oblong, white tomentose beneath, brown when old, flowers ?, west of Adjua, 10,500 feet, east Tebbu land, Abies forest. Oct., 1925.

- 13,679. Rhod. Sp. *Przewalskii* Maxim.
Shrub 3-4 feet, leaves small, oval,
1-2 inches leathery green glabrous,
flowers white, below Mount Kwang
Kei, Durakana, Tebbu land among
limestone rocks, 11,500 feet in Abies
forest. Oct., 1925.

- 13,680. Rhod. Sp. *rufum* Batal.
Shrub to tree 8-12 feet, leaves long,
oblong flowers pinkish, same locality
and together with 13,679.

- 13,681. Rhod. Sp. *Przewalskii* Maxim.
Shrub 5-6 feet, leaves large, oval
oblong green glabrous on both sides,
flowers white, same locality and
together with 13,679 and 13,680,
Tebbu land. Oct., 1925.

- 13,682. Rhod. Sp. *rufum* Batal.
Shrub 4-6 feet, leaves narrow,
oblong to elliptical, densely woolly
tomentose beneath, flowers ?,
Maerhku valley, North Minshan,
10,500-11,000 feet elevation.
Oct., 1925.

- 13,683. Rhod. *Sp. rufum Batal.*

Shrub 5-6 feet, leaves oval, acute, woolly brown beneath, small, Maerhku valley, North Minshan, 9,500-10,000 feet elevation.

Oct., 1925.

- 13,684. Rhod. *Sp. rufum Batal.*

Shrub 6-8 feet, leaves large, oblong, acute, woolly brown beneath (fruiting) capsules woolly brown, flowers? Shiaoku, below Mount Lissedzadza, 10,500-11,000 feet elevation, east Tebbu land.

Oct., 1925.

- 13,685. Rhod. *Sp. Przewalskii Maxim.*

Shrub 4-5 feet, leaves oval, acute pale chocolate coloured, glossy beneath, west of Adjua, Alpine region, 10,500-11,000 feet elevation, Abies forest, east Tebbu.

Oct., Nov., 1925.

- 13,686. Rhod. *Sp. Przewalskii Maxim.*

Shrub 5 feet, leaves small 2 inches, pale semi-glabrous beneath, flowers? Djrakana beyond Kwang Kei shan, 10,500-11,500 feet elevation, west Tebbu land.

Sept., Oct., 1925.

- 13,688. Rhod. *Sp. capitatum* Maxim
 Shrub 1 foot, leaves very small, flowers bluish purple, Kadjaku Valley on rocky steep mountain slopes, 10,500-11,000 feet elevation, west Tebbu land. Oct., 1925.
- 13,691. Rhod. *Sp. rufum* Batal.
 Shrub 6-8 feet, leaves oblong, tomentose, flowers ?, Maerhku, Abies and Picea forests, 10,500 feet elevation. Oct., 1925.
- 13,692. Rhod. *Sp. rufum* Batal.
 Tree 15 feet or more, leaves very large, oblong, acute, white woolly when young, rufon when old, flowers ?, Maerhku, North Minshan, 10,500-11,000 feet. Oct., 1925.
- 13,693. Rhod. *Sp. rufum* Batal.
 Shrub 5-6 feet, leaves thick, leathery, thickly rufons beneath, elliptical, oblong, flowers ?, Maerhku Valley, North Minshan in Abies and Picea forests, 10,500 feet elevation. Oct., 1925.

- 13,694. Rhod. Sp. *Przewalskii* Maxim.
Shrub 3-4 feet, leaves elliptical, pale green, glabrous on both sides, flowers white, Kadjaku, below Mount Kwang Kei, 11,500-12,000 feet elevation, Tebbu land. Oct., 1925.
- 13,695. Rhod. Sp. *Przewalskii* Maxim.
Shrub 6-8-15 feet, leaves large, broadly oval, glaucous, pubescent, beneath, flowers ?, Kadjaku with No. 13,694, in open Alpine region, 12,000 feet. Sept., Oct., 1925.
- 13,696. Rhod. Sp. *rufum* Batal.
Shrub or small tree 15 feet, leaves large, with deciduous tomento, flowers ?, Kadjaku, Abies forest, flowers of these species are pinkish with deep purple, Tebbu land. Oct., 1925.
- 13,697. Rhod. Sp. *rufum* Batal.
Shrub 6-8 feet, leaves oval, elliptical, rufous tomentose, flowers ?, Kadjaku below Mount Kwang Kei, Tebbu land, 10,500-11,000 feet elevation. The Rhododendron here enumerated with tomentose leaves represents several species but also several natural hybrids. They vary greatly especially when seen in flower, also in habit. Oct., 1925.

14,928. Rhod. *Sp. rufum Batal*

Shrub 8-15 feet with many spreading branches, leaves large oblong, dark green, glossy above, young leaves pale yellowish-white, tomentose beneath, old leaves cinnamon grown tomentose, flowers large, pale to deep pink spotted purple, in large umbels. This species forms the undergrowth to the exclusion of everything else in Abies forest on the steep slopes in Laliku or Lali Valley, between 11,000 to 12,000 feet elevation. Its place at the higher levels is taken by another species. The ground was covered with 2 feet of snow and the temperature on Oct. 18th, at 11,000 feet elevation was 15 degrees F. The Rhododendrons from this and other regions of the Minshan are bound to thrive in Boston, at least they can stand the coldest weather, but what about summer heat is another story.

Oct. 18, 1926.

- 15,004. Rhod. Sp. *micranthum* Turcz.
 Shrub 5-6 feet, branches erect,
 leaves small, linear, elliptical, 1 inch
 long, brownish dotted beneath,
 flowers small, white in dense racemes,
 dry gorges of Chulungapu near
 Wantsang, 7,000 feet elevation, Ha
 Tebbu land. Sept., Oct., 1926.
- 15,014. Rhod. Sp. *rufum* Batal.
 Shrub 10-15 feet, leaves large,
 oblong, densely tomentose beneath,
 dark green above, flowers ?, forest of
 Wantsang with Abies trees, 10,000-
 10,500 feet elevation, Ha Tebbu land.
 Sept., Oct., 1926.

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